

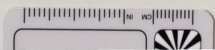
AIM Ann Report
1913 to 1914

ANNUAL REPORT
OF THE
AUCKLAND INSTITUTE
AND
MUSEUM
FOR
1913-1914.

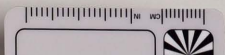
ADOPTED AT THE ANNUAL MEETING
HELD FEBRUARY 23RD, 1914.

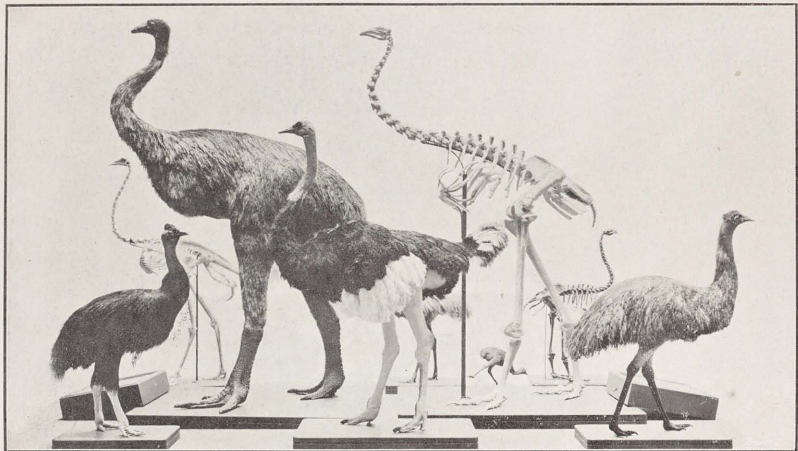
AUCKLAND:
THE BRETT PRINTING AND PUBLISHING CO., LTD., SHORTLAND STREET
1914.

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GROUP OF FLIGHTLESS BIRDS RECENTLY SET UP IN THE AUCKLAND MUSEUM.

Restoration and Skeleton of Moa (*Dinornis maximus*); specimens of Ostrich, Emu, and Cassowary.

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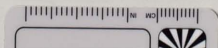
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OFFICERS
OF THE
AUCKLAND INSTITUTE.

President :

C. J. PARR, Esq., Mayor of Auckland.

Vice-Presidents :

PROF. H. W. SEGAR, M.A.

J. H. UPTON, Esq.

Council :

BRIFFAULT, R., M.B.

PEACOCK, T.

BURNS, R. E.

PETRIE, D., M.A.

EGERTON, PROF. C. W., M.A.

POND, J. A., F.C.S.

MILLER, E. V.

REID, J.

MITCHELSON, HON. E.

THOMAS, PROF. A. P. W.,
M.A., F.L.S.

VAILE, H. E.

Trustees :

REID, J.

PEACOCK, T.

UPTON, J. H.

Secretary and Curator:

T. F. CHEESEMAN, F.L.S., F.Z.S.

Assistant and Preparator of Specimens:

L. T. GRIFFIN, F.Z.S.

Auditor:

S. GRAY.

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The following
Periodicals and Publications
of Societies

are Subscribed to by the Institute :

NATURE.

THE PHILOSOPHICAL MAGAZINE.

THE AMERICAN JOURNAL OF SCIENCE.

AMERICAN CHEMICAL JOURNAL.

THE ELECTRICIAN.

THE PHYSICAL REVIEW.

ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE.

ANNALEN DER PHYSIK.

COMPTES RENDUS DES SEANCES DE L'ACADEMIE DES SCIENCES.

ANNALS AND MAGAZINE OF NATURAL HISTORY.

QUARTERLY JOURNAL OF MICROSCOPICAL SCIENCE.

ANNALS OF BOTANY.

THE BOTANICAL GAZETTE.

ENGLER'S BOTANICAL YEAR BOOK.

THE GARDENER'S CHRONICLE.

JOURNAL OF AGRICULTURAL SCIENCE.

THE GEOLOGICAL MAGAZINE.

ZEITSCHRIFT DER DEUTSCHEN GEOLOGISCHEN GESELLSCHAFT.

SCIENCE PROGRESS.

THE ECONOMIC JOURNAL.

THE LANCET.

MIND.

TRANSACTIONS AND PROCEEDINGS OF THE ROYAL SOCIETY.

TRANSACTIONS AND PROCEEDINGS OF THE ZOOLOGICAL SOCIETY.

THE ZOOLOGICAL RECORD.

PUBLICATIONS OF THE RAY SOCIETY.

JOURNAL OF THE CHEMICAL SOCIETY.

MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY.

QUARTERLY JOURNAL OF THE GEOLOGICAL SOCIETY.

JOURNAL OF THE ROYAL AGRICULTURAL SOCIETY.

THE GEOGRAPHICAL JOURNAL.

REPORT OF THE BRITISH ASSOCIATION.

Report of the Council.

In compliance with Rule 30, which provides that the Council shall each year place before the Annual General Meeting a report of the proceedings of the Institute during the previous twelve months, the following statement is now submitted for the consideration of the members:—

MEMBERS.—The number of new members elected during the year has been unusually small, amounting to five only. No doubt the reason for this is the canvass instituted last year, which resulted in the addition of 162 names to the roll; for it is a reasonable supposition that most of the likely additions were obtained on that occasion. The names withdrawn from the roll during the year number 21; six from death, and the remainder from resignation or non-payment of subscription for more than two consecutive years. This leaves the total membership at the present time at 370. It is satisfactory to be able to state that the Auckland Institute still retains the premier place among the incorporated societies so far as regards the number of members.

The Council have much regret in announcing the death of Mr. James Stewart, who has been associated with the Institute since its formation in 1868, and who has always taken a steady and consistent interest in its affairs. He has twice served as President, and with two short intervals has been a member of the Council since 1871. In 1906 he was appointed a Trustee, a position which he occupied up to the time of his death. The Council desire to express their high appreciation of the many services he has rendered to the Institute during his long and active membership.

All branches of the New Zealand Institute and all workers engaged in scientific research in New Zealand, will regret the sudden death of Mr. A. Hamilton, late Director of the Dominion Museum and a former President of the New Zealand Institute. The Council are anxious to place on record their high sense of the valuable nature of his work, more especially that portion of it dealing with the ethnology of the Maori race.

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FINANCE.—In accordance with the usual custom, full particulars respecting the financial position of the Society will be found in the Balance Sheets appended to the Report, but some brief remarks may be appropriately given here. The total revenue of the working account, excluding the balance in hand at the beginning of the year, has been £1,862 0s. 2d. This shows an increase of £508 7s. 0d. on the receipts for the previous year, which were £1,353 13s. 2d. Half of this increase is due to the payment of the Government subsidy of £250, which, it will be remembered, was voted by Parliament during the session of 1912 in recognition of an amount of £684 previously subscribed by the citizens of Auckland for the purchase of certain special additions to the Museum. The remainder of the increase can be accounted for by the improved returns now derived from the invested funds of the Institute, by new income derived from recent additions to the Capital Account, and by the payment of interest and rents received too late to be included in last year's returns. The total expenditure has been much larger than usual, amounting to £1,590 10s. 2d., as against £1,465 5s. 10d. for the previous year. The increase is principally due to the expenditure on the large group of flightless birds recently installed in the Museum, and to the cost of the show cases required for it and other important additions. The balance in hand at the present time amounts to £379 11s. 0d.

The legacy of £1,000 bequeathed by the late Sir John Logan Campbell, particulars of which were given in last year's report, has been paid by the Campbell Trustees during the year, and, added to the invested funds of the Society. A further sum of £105, derived partly from the sale of Museum endowments, and partly from the Life Subscription Account, has also been received. From these two sources the Capital Account of the Institute has been raised to the sum of £17,626 8s. 6d., almost the whole of which is now invested in specially selected freehold securities.

MEETINGS.—Seven meetings have been held during the year, at which the following lectures and papers have been contributed by various members:—

1. Serums and Vaccines, with special reference to Dr. Friedmann's Treatment of Tuberculosis.—By F. L. ARMITAGE.
2. Modern Developments of Electrical Engineering.—By W. WILSON, M.Sc.

3. A Visit to White Island, the active volcano in the Bay of Plenty.—By W. R. B. OLIVER.
4. Presidential Address: Town Planning.—By the President, C. J. PARR, Esq., Mayor of Auckland.
5. Surface Combustion.—By PROF. F. D. BROWN, M.A.
6. The Kauri Pine, its history and peculiarities.—By T. F. CHEESEMAM, F.L.S.
7. New Species of Phanerogams.—By D. PETRIE, PH.D.
8. Additions to the Flora of the Westport District.—By D. PETRIE.
9. Occurrence of *Poa antipoda* on Herekopere Island.—By D. PETRIE.
10. Notes on Cephalopoda from the Kermadec Islands.—By S. S. BERRY (Communicated by W. R. B. Oliver).
11. Contributions to a Knowledge of the Flora of New Zealand, No. 4.—By T. F. CHEESEMAM, F.L.S.
12. The Age and Rate of Growth of the Kauri.—By T. F. CHEESEMAM, F.L.S.
13. Notes on *Pittosporum Dallii*.—By T. F. CHEESEMAM, F.L.S.
14. Description of a New *Celmisia*.—By T. F. CHEESEMAM, F.L.S.
15. New Genera and Species of Coleoptera.—By MAJOR T. BROUN, F.E.S.

Most of the above papers have been forwarded for publication in the forthcoming volume of the Transactions of the New Zealand Institute. Volume 45 of the Transactions, including the papers read before the Incorporated Societies during the year 1912, has been issued and distributed among the members.

During the last session of Parliament a bill was introduced under the title of the "Science and Art Bill," which, among other objectionable provisions, included certain clauses which imperilled the future existence of the New Zealand Institute as a self-governing body, and which provided for changes in the mode of publishing and distributing the Transactions which would have greatly hampered the operations of the Institute, and which would have made it subservient to a body mainly composed of the Government nominees to be set up under the Bill. The Council are glad to state that mainly through ob-

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jections raised by the various Societies incorporated with the Institute these clauses were struck out of the Bill during its passage through Parliament.

Members are probably aware that the next meeting of the British Association will be held in Australia in the month of August, and that arrangements have been made by the Government to invite a number of the delegates to visit New Zealand early in September. A suggested programme, prepared by a Reception Committee sitting in Wellington, provides for the arrival of the visitors in Auckland, and their immediate journey southwards to Wellington and Christchurch, in each of which towns a stay of three or four days is to be made, and meetings held. The Council are now endeavouring to obtain an alteration of this programme under which a visit of reasonable duration may be made to Auckland.

MUSEUM.—The number of visitors to the Museum has been very close to last year's record. So far as the Sunday attendance is concerned, the register kept by the attendant shows that 23,866 people entered the building on that day, being an average of 459 for each Sunday. Last year the total number was 23,790, the increase being 76. There has been a slight decrease in the attendance on the seven chief holidays of the year; the total (4,201) being 634 under the figures for the previous year. The greatest attendance on any one day was 1,329 on October 12, being the Sunday after the installation of the Moa group, presently to be alluded to; but that on the King's Birthday (June 3), amounting to 1,250, shows a close approach. On ordinary week-days there has been an undoubted increase, but the absence of any recording mechanism makes it impossible to give the actual figures. From occasional counts, however, it is believed that the daily average attendance can be safely stated at 215, which would give a total of 65,790 for the year. Adding to that number the attendance on Sundays and holidays, the total number of visitors would stand at 93,857. Last year the estimated attendance was 90,225. It is worthy of remark that the increase would have been greater but for a reduction in the number of visitors during the period of the recent strike, doubtless caused by the interruption of the tram services.

The most noteworthy improvement made in the Museum during the year has been the installation of a large group of flightless birds, including a restoration of the largest species of Moa (*Dinornis maximus*), a full-sized model of the skeleton of

the same, obtained from the well-known dealer, Mr. Damon; an actual skeleton of a smaller species of Moa, a mounted specimen and a skeleton of the Ostrich, an adult and a young Emu, and two Cassowaries. The whole group has been placed in a plate-glass show-case, standing in the centre of the main hall. As the former existence of the various species of Moa is doubtless the most important fact in the history of the New Zealand fauna, it is a matter for congratulation that the Museum now contains a group which not only gives an excellent idea of the size and probable appearance of the extinct Moa, but which also clearly shows the differences between it and its nearest living allies. The preparation of the restoration and the mounting of the whole of the specimens have been successfully carried out by Mr. Griffin, and the result must be looked upon as exceedingly satisfactory. The cost, including that of the show-case, has been defrayed partly from the special subscriptions raised nearly two years ago, and partly from the Government subsidy, already mentioned.

Another conspicuous addition to the Museum is a group of Birds of Paradise, containing in all 37 specimens of 13 different species. Although some of the specimens have been in the possession of the Museum for some time, the majority have been recently obtained, some by way of Australia, and others from London. The group fully illustrates the extraordinary and varied developments of plumage found in the Birds of Paradise, and which are unequalled in any other family of birds. It forms an unusually handsome and attractive exhibit.

In order to bring these additions and many minor ones under the notice of the members and the citizens of Auckland generally, the Council decided that they should be inaugurated at a *conversazione* of members and their friends. This was held on the evening of October 8th, and passed off most successfully, an attendance of about 550 being present. Much interest in the collections was evinced by the visitors, and suggestions have been made that it would be good policy to provide for the holding of similar functions at regular intervals in the future. The Council are indebted to the kindness of several friends for contributing a loan collection of Maori articles for exhibition during the *conversazione*, and for allowing this collection to remain in the Museum for the present. Among those who have thus contributed, the names may be mentioned of Mrs. Kinder, Mrs. Gideon Smales, Mrs. Cardno, Messrs. W. H. Johnstone, E. H. Woledge, H. B. Kavanagh, C. A. Semadeni, and A. Geddes.

Although the preparation of the two groups described above has occupied a considerable amount of time, no small amount of

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other work has been done in the Museum. Mr. Griffin has mounted or skinned 9 mammals, mounted or prepared as skins 19 birds, mounted and coloured 24 fishes, and mounted several crustacea and other invertebrata. In addition, several alcoholic specimens have been prepared for exhibition, and several casts of various objects have been made in plaster or gelatine. Much has also been done in the way of rearranging the Maori ethnographical collections, and the Curator has prepared new descriptive labels for many of the exhibits.

The most important donation made to the Museum during the year is undoubtedly Mr. Mitchelson's collection of Kauri Gum, together with the plate-glass show-case in which it is exhibited. This collection, which has taken over 40 years to form, and which includes picked examples of most, if not all, of the known varieties, is acknowledged to be the most complete in existence; and, as many of the deposits of Kauri Gum are now worked out, could not be replaced at the present time. The Council are grateful to Mr. Mitchelson for placing in the Museum such an excellent representation of one of the most interesting of the natural productions of the Colony.

Several additions of importance have been made to the Maori collections, some of which are well worth mentioning. Dr. Roger Buddle has deposited his collection of bone fish-hooks, mainly obtained in the Southern portion of the Colony, and which includes 143 specimens, in addition to a few miscellaneous articles. Mrs. George Humphries has presented a very valuable little collection which was forwarded to England by her father, the late Sir J. L. Campbell, in 1843, including a fine greenstone Hei Tiki, an unusually good Hoeroa, two Taiahas, one of them carved from end to end, and a remarkably fine feather box. Now, after the lapse of 70 years, these articles return to the city to which Sir J. L. Campbell has made so many benefactions. Mr. George Wootten has given an ancient trough carved in the living root of a miro tree, used in olden times for snaring pigeons, and Miss M. Makai has presented one of the portable troughs used for the same purpose. Mr. Griffin, when collecting near Mercury Bay for the Museum, was fortunate enough to secure a recently uncovered Maori skeleton, with which 14 large stone axes, in process of manufacture, had been buried. A very remarkable carved figure-head of a small fishing canoe, evidently of great age, and of an entirely different type to any other in the Museum, has been presented by Mr. Robison. From Mr. A. E. Bregmen come two ancient hinakis and a small canoe baler, found in digging a drain near Lake Whangape; while Mr.

J. B. Thompson sends an antique stone weapon found in excavating the new outlet for the Rangitaiki River, near Matata. Other articles are mentioned in the list appended to the Report. In foreign ethnology, the only addition of importance is a fine collection of weapons, implements, ornaments, etc., from the Louisiade Archipelago, purchased from Mrs. Ansley.

LIBRARY.—An expenditure of £190 has been incurred on the Library during the year. An order for 70 volumes, alluded to in last year's report as on its way from London, was received almost immediately after the last annual meeting. A second consignment, comprising 56 volumes, was arranged for in June, and the books were received in November. A third order of about 40 volumes is now in the hands of the London agents of the Institute; and the books may be expected to arrive about May. A full list of all the books received will be found in the appendix; and holders of the Library Catalogue will soon be supplied with printed slips giving the titles of the books added to the Library during the last two years.

In addition to the purchase of books, the Magazines and serial publications subscribed to by the Society have been regularly received, and to some extent circulated among the members. A portion of the expenditure has been devoted to the binding of these serials, and over 70 volumes have been added to the Library from that source alone. The usual presentations and exchanges have been received from Foreign Societies. The Council have also to acknowledge the receipt of several donations from private individuals, all of which are mentioned in the appendix. The most important of these is the presentation by Professor Brown of 32 volumes of the *Annalen der Physik*, which, with those already in the Library, will complete the Society's set of this important periodical from the year 1877 up to the present time.

FURTHER ACCOMMODATION REQUIRED.—The preceding summary of the work performed by the Society during the year shows many evidences of satisfactory progress, and many proofs of the increasing interest taken in the Institution by the community. It is becoming more generally recognised that in maintaining a free public Museum and Scientific Library the Institute is discharging a duty of no small importance, and one which should secure the sympathetic assistance of all classes. But, although the Council may fairly offer their congratulations on the advances that have been made in recent years, and on the rapid growth of the collections under their charge; and while they appreciate the increasing attendance of visitors, and the more

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numerous donations to the Museum, there is another and less satisfactory aspect of the case, and one which is rapidly becoming evident to all who are familiar with the Museum. Two years ago, the Council called attention to the drawbacks and deficiencies which, through want of space, impede the development of both the Museum and Library, and will continue to do so in an increasing ratio until an enlargement of the buildings, of no small size, can be obtained. At the present time, if it is desired to show new additions of importance, room can only be found by withdrawing articles already on exhibition. To quote the previous words of the Council: "In every department no improvement of note can be made until more room is available. Room is required for the projected cases intended to show the habits and mode of life of certain New Zealand birds; room is wanted to accommodate a collection of New Zealand invertebrata, of which at present there is no adequate exhibited series. Room is also needed for the preparation of a collection of New Zealand fossils, and for some representation through casts and models of the extinct forms of life. Room is urgently needed for the enlargement of the Polynesian collections, if only from the point of view of affording means of comparison with the handiwork of the Maori race. Lastly, it would not be difficult to show how the appearance and usefulness of the Maori collection could be greatly enhanced if room were available for its proper extension and display."

Last autumn, a deputation from the Council waited upon the Premier in order to press upon his notice the claims of the Museum for a grant in aid of a building fund. Although the deputation was sympathetically received, the wave of financial stringency then passing through the Colony precluded any hope of immediate monetary assistance. A promise, however, was made to the effect that the application would be favourably considered during the session of Parliament to open in June next. It will be the duty of the incoming Council to bring the matter once more under the notice of the Government, and to take such steps to support the application that may appear to be requisite.

The Treasurer in Account with the Auckland Institute and Museum Trust Board.

I.—WORKING ACCOUNT.

February 19, 1913, to February 19, 1914.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 19, 1913	108	1	0	Books, Periodicals, and other Expenditure on Library	189	2	0
Members' Subscriptions	354	18	0	Additions to Museum	73	14	5
Interest from Costley Bequest	518	7	6	Museum Requisites	62	5	11
Rents and Interest transferred from Museum Endowment Account	554	5	1	Salaries	711	7	1
Interest transferred from Mackechnie Library Bequest Account	97	10	0	Printing, Advertising, Insurance, Gas, Annual Cleaning, Expenses of Meetings, Stationery, Postages, and other Expenses	182	17	9
Interest from Campbell Bequest (six months)	30	0	0	Museum Show-cases and Fittings, etc., Repairs to Buildings, etc.	236	13	0
Interest from Nathan Bequest	5	10	0	Expenses of Conversazione	68	2	7
Interest from Life Subscription Account	12	4	6	Mortgage Tax	44	4	5
Government Subsidy on Special Subscription Fund (£684 6s.) raised by the Citizens of Auckland in 1912	250	0	0	Life Subscription transferred to Investment Account	10	10	0
Balance of Special Subscriptions unexpended at the close of last year	32	8	9	Miscellaneous Expenses	11	13	0
Miscellaneous Receipts	6	16	4	Balance in the Bank of New Zealand, February 19, 1914	379	11	0
£1,970	1	2		£1,970	1	2	

T. F. CHEESEMAN, Treasurer.

I have examined the Books and Vouchers. My requirements as Auditor have been complied with. I hereby certify the above to be a correct statement of the working expenses and receipts to February 19, 1914.

S. GRAY, F.R.A., Auditor.

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The Treasurer in Account with the Auckland Institute and Museum Trust Board.

February 19, 1913, to February 19, 1914.

II.—MUSEUM ENDOWMENT ACCOUNT.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 19, 1913	3	4	2	Transferred to Investment Account	105	0	0
Endowments Sold	104	7	8	Transferred to Working Account	554	5	1
Rents of Endowments	211	19	11	Bank Charges	0	10	0
Interest on Investments	342	15	2	Balance in the Bank of New Zealand, February 19, 1914	2	11	10
	£662	6	11		£662	6	11

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III.—MACKECHNIE BEQUEST ACCOUNT.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 19, 1913	4	5	0	Transferred to Working Account for Purchase of Books	97	10	0
Interest on Investments	97	10	0	Bank Charges	0	10	0
	£101	15	0	Balance in the Bank of New Zealand, February 19, 1914	3	15	0
					£101	15	0

T. F. CHEESEMAM, Treasurer.

Examined and found correct.

S. GRAY, F.R.A., Auditor.

Investments of the Auckland Institute.

	£	s.	d.	£	s.	d.
I.—COSTLEY BEQUEST—						
On Mortgage at 6 per cent., £4,000 less insurance claim to be adjusted	3,500	0	0			
On Mortgage at 6 per cent.	500	0	0			
On Mortgage at 6 per cent.	1,450	0	0			
On Mortgage at 6 per cent.	850	0	0			
On Mortgage at 6 per cent.	750	0	0			
On Mortgage at 6 per cent.	650	0	0			
				7,700	0	0
Invested in Site of Museum	2,500	0	0			
Expended in erection of Maori Hall	1,500	0	0			
Expended in Show-cases and Fittings	450	0	0			
				4,450	0	0
Total of Costley Bequest				12,150	0	0
II.—MUSEUM ENDOWMENT—						
On Mortgage at 5½ per cent.	1,300	0	0			
On Mortgage at 5½ per cent.	1,200	0	0			
Dunedin Corporation 4½ Debentures	1,000	0	0			
On Mortgage at 5 per cent.	750	0	0			
Auckland Gas Co. Debentures	600	0	0			
On Mortgage at 6 per cent.	500	0	0			
On Mortgage at 6 per cent.	400	0	0			
On Mortgage at 6 per cent.	350	0	0			
Lodged at Call with Auckland Gas Company	250	0	0			
On Mortgage at 6 per cent. (part Mortgage for £450)	135	0	0			
Waiting Investment	103	8	6			
Total				6,588	8	6
III.—MACKECHNIE LIBRARY BEQUEST—						
Auckland Harbour Board 4½ per cent. Debentures	1,000	0	0			
On Mortgage at 6 per cent.	1,000	0	0			
Total				2,000	0	0
IV.—CAMPBELL BEQUEST—						
Lodged at Call with Auckland Gas Company				1,000	0	0
V.—NATHAN BEQUEST—						
On Mortgage at 6 per cent. (part Mortgage for £450)				100	0	0
VI.—LIFE SUBSCRIPTION ACCOUNT—						
On Mortgage at 6 per cent. (part Mortgage for £450)	215	0	0			
On Deposit in Auckland Savings Bank	23	0	0			
				238	0	0
Total				22,076	8	6
Proportion Bearing Interest				£17,626	8	6
T. F. CHEESEMAN, Treasurer.						
I have examined the Deeds of the Securities, and the Bank Certificate of Debentures, and certify them to be in order.						
S. GRAY, F.R.A.S., Auditor.						

Form of Bequest.

*I give and bequeath to the Institution known
as the Auckland Institute and Museum the sum of
£ free of succession or estate duty,
to be applicable for the general purposes of such
Institution. And I declare that the receipt of the
Treasurer or the proper officer for the time being
of such Institution shall be a sufficient discharge
for the same.*

List of Benefactions
made to the
Auckland Institute and Museum
of an amount (or value) exceeding £50.

1876.

£2,026 subscribed by the citizens of Auckland towards meeting the cost of the first portion of the present Museum Buildings. (This sum included two donations of £500 each from Mr. Justice Gillies and the Hon. T. Williamson.)

1876.

Presentation made by Mr. R. C. Barstow of a large and varied collection of Maori articles, including flax and dog-skin cloaks, carvings, greenstone ornaments, bone and stone meres, fish-hooks, etc., etc.

1877.

Bequest from Mr. G. F. Edmonston of 564 volumes of standard works on Physical and Natural Science.

1878.

Donation from Mr. T. Russell, C.M.G., of 34 plaster-casts and busts from the antique.

1878.

£106 donated by Mr. J. C. Firth to cover the expense of show-cases in the Museum.

1879-1883.

Mr. J. T. Mackelvie presented 260 volumes of books relating to the early history of New Zealand; 130 volumes of miscellaneous scientific works; a collection of ethnographical specimens from the Swiss Lake Dwellings; and 40 picked mineral specimens.

1884.

Bequest from Mr. Edward Costley of £12,150.

1887.

Bequest from Mr. David Nathan of £100.

1887.

Bequest of Maori articles from Mr. C. O. Davis, comprising dog-skin and feather mats; taiahas, paddles, spears; bone and wooden meres; carved boxes; and a variety of other articles.

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1897-1898.

Donation of £100 from Mr. T. Russell, to cover the expense of forming a collection of geological specimens from the Cape Colville Peninsula.

1901.

Japanese Shinto Shrine, elaborately lacquered and decorated, presented by Mr. L. D. Nathan.

1901-1902.

£1,000 subscribed by the citizens of Auckland for the purchase of the Mair Collection of Maori Ethnographical Articles.

1902-1903.

Bequest of £2,500 from Mr. E. A. Mackechnie (£2,000 to be invested in order to produce an income for the purchase of books for the Library of the Institute; £500 to be expended in providing groups of the larger mammals and the necessary show-cases.)

1906-1907.

£662 subscribed by the citizens of Auckland for the purchase of Mr. Fenton's elaborately carved Pataka, and for the purchase and erection of the Runanga House, Rangitihi.

1911-1912.

£684 subscribed by the citizens of Auckland for the purchase of ancient historic Maori Carvings; and for other additions to the Museum.

1913.

Bequest of £1,000 from Sir John Logan Campbell.

1913.

Donation from Mr. Henry Shaw of 62 volumes of Geographical and Scientific works, and of 110 volumes from Mr. F. Shaw.

1913.

Unusually large and complete collection of Kauri Gum, containing 400 examples, together with the plate-glass show-case containing the same, presented by the Hon. E. Mitchelson.

Additions and Donations

TO THE

Library and Museum.

- Parliamentary Papers and Reports; New Zealand Hansard for 1913; New Zealand Official Year Book; New Zealand Statistics for 1908-1911; Annual Report and other publications of the Department of Agriculture; Suter's Manual of the New Zealand Mollusca:—The New Zealand Government.
- Transactions of the New Zealand Institute, vol. 45:—The Institute.
- Journal of the Polynesian Society, parts of vols. 21 and 22: — The Society.
- Bulletin of the Geological Survey of New Zealand, new series, No. 15:—The Survey.
- Report of the Dominion Laboratory for 1913:—The Laboratory
- Catalogue of the Hocken Library, Dunedin:—The Trustees.
- Journal of the Linnean Society of New South Wales, vol. 37, pts. 3 and 4; vol. 38, parts 1 and 2:—The Society.
- Records of the Australian Museum, vol. 9, parts 3, 4; vol. 10, parts 3-7:—The Museum.
- Review of the Genus *Eucalyptus*, parts of vol. 2:—J. H. Maiden.
- Annual Report of the New South Wales Fishery Board; various Reports:—The Fisheries Department.
- The Australian Naturalist for 1912-1913:—The Editor.
- Proceedings of the Royal Society of Victoria, parts of vol. 25:—The Society.
- Bulletins and other publications of the Commonwealth Bureau of Meteorology:—The Bureau.
- Transactions of the Royal Society of South Australia, vol. 35:—The Society.
- Proceedings of the Royal Society of Queensland, vol. 24:—The Society.
- Memoirs of the Queensland Museum, vol. 2, No. 1:—The Museum.
- Final portions of the Fauna Hawaiiensis; Occasional Papers of the Bishop Museum, vol. 5, No. 3:—The Bishop Museum.
- Publications of the University of California, Botany, vol. 4, Nos. 16-19:—The University.
- Report of the United States National Museum for 1912; Proceedings of the U.S. National Museum, vols. 42 and 43; Contributions to the U.S. National Herbarium, parts of vols. 16 and 17; various Bulletins.
- Proceedings of the Nova Scotian Institute of Science, vol. 13:—The Institute.

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Foster's Cherry Fruit Sawfly; Marsh's Horse-radish Webworm; Parker's Flour Paste and Red Spider; Scott and Siegler's Lime Sulphur as a Poison for Insects; Fiske's Gypsy Moth as a Forest Insect; Jones and Davidson's Codlin Moth; Woglum's Trip to India for natural enemies of Citrus White Fly; Burgess' Dispersion of the Gypsy Moth; Howard and Fiske's Importation of Parasites of the Gypsy Moth; Casteel's Honey Bee and Pollen Collecting; Hunter, Pratt, and Mitchell's Cactus Insects of the United States; Johnson and Hammar's Grape-berry Moth; Dill and Bryan's Expedition to Laysan Island; Beal's Important Flycatchers; Marsh's Sugar-beet Webworm; Merrill and Black's Control of White Flies in Florida; Osborne's Leafhoppers affecting Cereals; Hooker, Bishopp, and Wood's Life History of North American Ticks; Webster and Philipp's Spring Grain-Aphis; Holloway's Observations on Sugar-cane Insects; Gill's Fruit-tree Leaf-roller; Quaintance and Baker's Classification of the Aleyrodidae; Parker's Red Spider on Hops; Parker's Hop Aphis in the Pacific Region; Bishopp's Fowl Tick; Yother's Spraying for White Flies in Canada; Marsh's Striped Beet Caterpillar; McGregor's Red Spider on Cotton; Morgan and Parman's Arsenate of Lead as an Insecticide; Newell and Barber's Argentine Ant; Chittenden's Spotted Beet Wireworms; Chittenden's Abutilon Moth; Webster's Serpentine Leaf-miner; various Farmers' Bulletins and Circulars;—The Department of Agriculture, United States.

Summary Reports of the Geological Survey and Mines Department, Canada, for 1912; Wilson's Pyrites in Canada; Clapp's Southern Vancouver Island; LeRoy's Geology of Phoenix, British Columbia; Haanel's Utilisation of Peat Fuel; Park's Building and Ornamental Stones of Canada, vol. 1; Mackenzie's Magnetic Ironsands of Canada; McLeish's Mineral Production of Canada for 1911; Dresser's Reconnaissance along the Transcontinental Railway; Wilson's Geology of Larder Lake District; Production of Gold, Silver, Lead, etc., in Canada for 1912;—The Geological Survey of Canada.

Publications of the Philippine Weather Bureau for 1912-1913;—The Bureau.

Boletim de Bosques Pesca i Caza for 1912-1913;—The Chilian Forestry Department.

Annals of the National Observatory of Rio de Janeiro;—The Observatory.

Boletim Instituto Geologico de Mexico, No. 29;—The Geological Survey, Mexico.

The Museums Journal for 1913;—The Museums Association.

Symons's Monthly Meteorological Journal for 1913;—The Editor.

Kew Bulletin for 1912-1913; Icones Plantarum, parts of vol. 10;—The Director, Kew.

Report of the Solar Physics Committee for 1912;—The Committee.

Science Abstracts, vol. 15; Annalen der Physik, from 1877 to 1888, 33 vols.;—Prof. F. D. Brown.

Harshberger's Botanists of Philadelphia;—The Author.

Rock's Indigenous Trees of the Hawaiian Islands;—W. D. Westervelt.

Rammelsberg's Handbuch der Krystallographischen Chemie;—Prof. F. D. Brown.

Drude's Die Okologie der Pflanzen;—The Author.

BOOKS PURCHASED.

Wright's Origin and Antiquity of Man.
Cohen's Smoke, a Study of Town Air.
Nansen's In Northern Mists, 2 vols.
Schott's Electromagnetic Radiation.
Rickmer's The Duab of Turkestan.
Munro's Palaeolithic Man and Terramara.
Arber's Herbals, their Origin and Evolution.
Henry's The Plant Alkaloids.
Bryce's South America—Observations and Impressions.
Thorold Rogers's Six Centuries of Work and Wages.
Frazer's The Belief in Immortality and the Worship of the Dead.
Bonney's The Building of the Alps.
Wright's The Ice Age in North America and its bearings on the Antiquity of Man.
Chisholm's The Britannica Year-book.
Geikie's The Love of Nature Among the Romans.
Taylor's The Mediaeval Mind.
Price's Per-Acids and their Salts.
Scheltema's Monumental Java.
Lones's Aristotle's Researches in Natural Science.
Collective Index to the Transactions, etc., of the Chemical Society.
Lichtenberger's Germany and its evolution in Modern Times.
Merz's History of European Thought in the Nineteenth Century, 3 vols.
Morgan's Instinct and Experience.
Fournier D'Albe's Contemporary Chemistry.
Wundt's Introduction to Psychology.
Scott's Increasing Human Efficiency in Business.
Cannan's The Economic Outlook.
Stevens's Industrial Combinations and Trusts.
Whetham's Science and The Human Mind.
Cadbury's Experiments in Industrial Organization.
Barbour's The Standard of Value.
Arrhenius's Theory of Solutions.
Jenkinson's Vertebrate Embryology.
Oliver's Makers of British Botany.
Soddy's Chemistry of the Radio-Elements.
Findlay's Osmotic Pressure.
Webb and Freeman's Seasonal Trades.
Seligman's The Veddass.
Rutherford's Radioactive Substances and their Radiations.
Thomson's Collected Papers in Physics and Engineering.
Brown's History of Chemistry.
Greenhill's Dynamics of Mechanical Flight.
Hale's Study of Stellar Evolution.

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Loeb's The Mechanistic Conception of Life.
 Abney's Researches in Colour Vision and the Trichromatic Theory.
 McDougal's Body and Mind.
 Hedin's Trans-Himalaya, vol. 3.
 Chalmers Mitchell's The Childhood of Animals.
 Dill's Roman Society in the last Century of the Western Empire.
 Dill's Roman Society from Nero to Marcus Aurelius.
 Levy's Monopoly and Competition.
 Frazer's The Scapegoat.
 Churchill's Easter Island and the Rapanui Speech.
 Stein's The Ruins of Desert Cathay, 2 vols.
 Royal Society's Index. Vol. 1, Pure Mathematics; vol. 2, Mechanics;
 vol. 3, part 1, Physics.
 Cambridge Anthropological Expedition to Torres Straits, vol. 4.
 Moulton's Waterways versus Railways.
 Pigou's Principles and Methods of Industrial Peace.
 Scott's Journals of his last Expedition, 2 vols.
 Thorpe's Dictionary of Applied Chemistry, vol. 5.
 Frazer's Balder the Beautiful, 2 vols.
 Year-book of U.S. Department of Agriculture for 1911-1912.

Skins of Kangaroo and Kangaroo Rat; Skin of Lemur; Skins of Baby
 Lion and Leopard; Skin of Shy Albatross:—Received from the
 Onehunga Zoo, per the proprietor, Mr. Boyd.
 Skin of Rabbit, showing enormously long incisors:—J. G. Phillips.
 Skull of Babirusa:—R. Macey.
 Skull of Maori found near Clevedon:—E. H. Browne.
 Skull of Ziphid Whale (*Mesoplodon*):—T. B. Hill.
 Kiwi (partial Albino):—C. Haylock.
 Pelvis of Emu:—Finlay Ross.
 Shining Cuckoo:—T. L. McKinney.
Circus Gouldii:—Hallyburton Johnstone.
 King Penguin from Victoria Land:—W. R. McGregor.
 Nest of Tui:—A. J. Osborne.
Pteropus sp. from Fabre Island:—T. Maning.
 Fruit Pigeons from Makatea Island; Angler Fish:—J. L. Young.
 Skin of *Ardea sacra*:—G. F. New.
 Skin of Bellbird:—J. A. Parry.
 22 Skins of Birds of Paradise:—Purchased.
 New Zealand Grayling (*Prototroctes oxyrhynchus*):—Mr. McIntosh.
Tripterygium varium:—A. Good.
 Thresher Shark:—F. Robinson.
 Tuatara Lizard:—F. Brown.
 Tuatara Lizard:—C. Seegner.
 Red Cod:—F. Wyman.

- Black Snake from Gippsland:—J. Langwill.
 Green Lizard (*Naultinus punctatus*):—G. H. Brown.
 Puriri Moth (*Hepialus virescens*):—E. Collett
Macrothele Huttoni:—A. E. Brookes; Roy Wynter.
 Four Specimens *Paryphanta Busbyi*; *Moloch horridus*; *Naultinus punctatus*:—T. W. May.
 Larva, pupa, and perfect stage of Rhinoceros Beetle:—Dr. Brewis.
 New Zealand land shells from Karangahake:—W. H. Lloyd.
 Living Specimens of *Paryphanta Busbyi*:—Roy Wynter.
Heterostoma platycephala:—J. H. Butler.
Tethys brunnea, two specimens:—A. E. Brookes.
Chameleon pumilus, from Central Africa:—J. Dawson.
 Series of Specimens of *Teredo*, from Auckland Harbour:—H. Larkin.
 Various Crustacea and other invertebrates from Fanning Island:—Mrs. Metcalfe.
 Crystalline limestone from Kawhia:—J. Surden.
 Various fossils from Waingaro:—W. Seavill.
 Pele's Hair from Kilavea, Sandwich Islands:—Rev. F. Gould.
 Large Collection containing over 400 specimens of the chief varieties of Kauri Gum, together with the plate-glass show-case containing the same:—Hon. E. Mitchelson.
 Figure-head of H.M.S. Orpheus, lost on the Manukau Bar in 1863:—Rev. Canon Eccles, per Archdeacon Walsh.
 Kava Bowl from Fiji:—G. H. Moody.
 Cast of Hawaiian Ulamaika:—Exchange from Bishop Museum, Honolulu.
 Large Lali, or Wooden Drum, from Fiji:—Hon. J. B. Turner.
 Blowpipe and Club from British Guiana:—J. E. Hewick.
 Two Woven Girdles from German New Guinea; two idols from the same; two woven girdles from the Caroline Islands; Wooden Dish from the same:—Exchange from the Hamburg Museum.
 Various ethnographical specimens:—Mrs. Hallyburton Johnstone.
 Flint spear-heads, etc., from Central America, collected by H. W. Price:—Mrs. H. W. Price.
 Model of Polynesian Canoe, exact locality not known:—Capt. Scott, per Dr. A. C. Purchas.
 Two Wooden Pillows, one Fly-whisk, Bone Spoon, all from Fiji:—Mr. Borthwick.
 Extensive Collection of Ethnographical articles from the Louisiade Archipelago, south-east of New Guinea:—Purchased from Mrs. Ansley.
 Handbag ornamented with Nassa Shells; Carving used for bewitching people; Necklace of cocoa-nut fibre worked into interlacing rings; Stone Axe, all from German New Guinea:—Purchased.
 Mexican Spur:—P. Hansen.
 Greenstone Hei-tiki; Carved feather-box; large Hoeroa; Carved Taiaha; Plain Taiaha, all once the property of Sir J. L. Campbell:—Mrs. G. Humphreys.
 Greenstone Adze found at Waikiekie, Kaipara:—Purchased.

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- Ancient Figure-head from a small fishing canoe, found near the mouth of the Mokau River:—M. C. Robison.
- Figure-head of river canoe; framework of a Mussel dredge; Skin from the front of a Maori skull, showing tattooing:—Exchange from Col. Boscawen.
- Greenstone ear-pendant found at Wangapoua:—Purchased.
- Broken Ko or Spade, with three solid steps, found in a drain at Mangawai:—Mr. Wharfe.
- Pigeon trough carved out of the root of a living Miro tree:—G. Wootten.
- Carved Pigeon trough; floor mats used in a Runanga House:—Miss Margaret Makai.
- Remnants of old canoe, etc., found in a drain at Piako:—Hallyburton Johnstone.
- Two ancient Hinakis used for catching Whitebait; one canoe baler, all found in a drain at Lake Whangape:—A. E. Bregmen.
- Human skeleton found with 14 large unfinished stone axes:—Collected by L. T. Griffin.
- Ancient Stone Weapon or Implement, found in excavating the new outlet for the Rangitaiki River, near Matata:—J. B. Thompson.
- Unusually large Iron Fish-hook, obtained at Tokomaru Bay:—E. H. Woledge.
- Remarkable carved stone figure, found in the forest near Honikiwi, Waitomo County:—C. Redwood.
- Five Greenstone ear-pendants:—H. E. Vaile.
- Large Collection (143 examples) of fish-hooks, bone barbs, etc.; ancient Stone Mere; Seed of *Entada scandens* used as an ear-ornament:—Deposited by Dr. Roger Buddle.
- Large Carved Steer-paddle:—Purchased.
- Series of Paddles showing variations in the shape of the handles; iron fish-hook:—J. Graham.
- Medal struck to commemorate the visit to New Zealand of H.M.S. New Zealand:—Minister of Internal Affairs.
- Stone Axe:—Hakara Kereama.
- Maori Spade, or Ko, found at Kopuku, Maramarua:—J. Bancroft Reads.
- Maori Grinding-stone found at Great Omaha:—Jas. Anderson.
- Two Stone Axes found at Mauku:—J. Foster.
- Paoi or Fern-beater; Kumara Weeder:—A. Webb.
- Series of photographs of Maoris in the position used in wielding their weapons:—C. M. Phillips.
- Bone Gouge found on One-tree Hill:—E. N. Bostock.

LIST OF MEMBERS

For the Year ending March 31st, 1914.

(With Postal Addresses.)

(Members are requested to advise the Secretary of any change of Address.)

[Honorary and Life Members distinguished thus *.]

- | | |
|------------------------------------------------------------------|-------------------------------------------------------------------------|
| Abel, R. S., care Abel, Dykes & Co., Shortland Street, Auckland. | Bamford, H. D., LL.D., Bank of N.Z. Buildings, Auckland. |
| Abbott, R. H., Elliott Street, Auckland. | Bankart, A. S., Shortland Street, Auckland. |
| Adams, L., Lake Takapuna. | Bartley, E., Royal Insurance Co., Queen Street, Auckland. |
| Aickin, G., Queen Street, Auckland. | Bassett, T., Onehunga. |
| Aldis, M., Auckland. | *Bates, T. L., Brookfield, Alfred Street, Waratah, Newcastle, N.S.W. |
| Alexander, L. W., P.O. Box 816, Auckland. | Batger, J., Mt. Eden Road, Auckland. |
| Alison, A., Devonport Ferry Co., Auckland. | Bell, T., care Union Oil, Soap and Candle Co., Albert Street, Auckland. |
| Alison, E. W., Devonport Ferry Co., Auckland. | Benjamin, E. D., care L. D. Nathan & Co., Shortland Street, Auckland. |
| Allen, John, Cheltenham, Devonport. | Benjamin, L., care Hayman & Co., Customs Street, Auckland. |
| Andrews, L. W. D., Union Insurance Co., Fort Street, Auckland. | Biss, N. L. H., Shortland Street, Auckland. |
| Arey, W. E., Victoria Arcade, Auckland. | Blomfield, W., "Observer" Office, Wyndham Street, Auckland. |
| Ardern, P. S., Remuera. | Bloomfield, J. L., St. Stephen's Avenue, Parnell. |
| Armitage, F. L., Hobson's Buildings, Shortland Street, Auckland. | Bloomfield, W. R., Owen's Road, Mt. Eden. |
| Arnold, C., Swanson Street, Auckland. | Bond, Elon, care Bond Bros., Commerce Street, Auckland. |
| Arnoldson, L., Quay Street, Auckland. | Bond, Erni, care Bond Bros., Commerce Street, Auckland. |
| Bagley, C., Onehunga. | Bradley, Samuel, Onehunga. |
| Bagnall, L. J., O'Rorke Street, Auckland. | Brett, H., "Star" Office, Shortland Street, Auckland. |
| Baker, G. H., Commerce Street, Auckland. | Briffault, R., M.B., Mt. Eden Road, Auckland. |
| Baker, W. Ward, care S. Vaile & Sons, Queen Street, Auckland. | |
| Ball, W. T., Mt. Eden, Auckland. | |

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- Broadgate, F. L., University College, Auckland.
- Brooke-Smith, E., Manukau Road, Parnell.
- Broun, Major T., F.E.S., Mt. Albert, Auckland.
- Brown, Alan, care Bamford and Brown, Queen Street, Auckland.
- Brown, E. A., Cleave's Buildings, High Street, Auckland.
- Brown, Prof. F. D., University College, Auckland.
- Brown, John, Beresford Street, Bayswater.
- Bruce, W. W., Swanson Street, Auckland.
- *Buchanan, A., Victoria Avenue, Remuera.
- Buddle, C. F., Wyndham Street, Auckland.
- Buddle, T., Wyndham Street, Auckland.
- Burgess, E. W., Devonport.
- Burns, R., Customs Street East, Auckland.
- Burnside, W., Education Offices, Auckland.
- Burt, A., care A. & T. Burt & Co., Custom Street West, Auckland.
- *Burton, Col., The Grove, Branksome Park, Bournemouth, England.
- Bush, W. E., City Engineer's Office, Town Hall, Auckland.
- Butler, Miss, Girls' Grammar School, Auckland.
- Buttle, J., N.Z. Insurance Co., Queen Street, Auckland.
- Campbell, J. P., care Thorne, Campbell & Thorne, Wyndham Street, Auckland.
- Casey, Maurice, Hamilton Road, Ponsonby.
- Cheal, P. E., Upper Queen Street, Auckland.
- Cheeseman, T. F., F.L.S., Museum, Auckland.
- Choyce, H. C., Remuera Road, Auckland.
- Clark, A., Wellesley Street, Auckland.
- Clark, A., M.B., Ellerslie.
- Clark, A. W., care P. Hansen & Co., Queen Street, Auckland.
- Clark, H. C., care A. Clark & Sons, Wellington.
- Clark, M. A., Wellesley Street, Auckland.
- Clarke, E. de C., Geological Survey, Perth, W. Australia.
- Clay, T. B., care S. Vaile & Sons, Queen Street, Auckland.
- Clifford, J. M., P.O. Box 756, Auckland.
- Coates, T., Orakei.
- Cochrane, W. S., Diocesan Office, Shortland Street, Auckland.
- Coe, James, Mt. Eden Road, Auckland.
- Cole, Rev. R. H., Walford, Gladstone Road, Parnell.
- Cole, W., Mt. Eden Road, Auckland.
- Coleman, J. W., Lower Queen Street, Auckland.
- Coleman, W., Imperial Buildings, Queen Street, Auckland.
- Commons, W. M., Wilson's Portland Cement Co., Shortland Street, Auckland.
- Combes, F. H., Victoria Avenue, Remuera.
- Cooper, C., Bourne Street, Mt. Eden.
- Cooper, Mr. Justice, Judge's Chambers, Wellington.
- Cory-Wright, S. B.Sc., University College, Auckland.
- Cottrell, A. J., Training College, Wellesley Street, Auckland.
- Cousins, H. G., Normal School, Wellesley Street, Auckland.
- Court, G., Karangahape Road, Auckland.
- Court, J., Ponsonby, Auckland.
- Craig, J. J., Queen Street, Auckland.
- Cranwell, R., Crescent Road, Parnell.
- Cuff, J. C., F.S.A., Emerald Hill, Epsom, Auckland.
- Currie, J. G., care J. Currie, Architect, Queen Street, Auckland.
- Davis, Elliot R., Hancock & Co., Custom Street East, Auckland.
- Davis, Ernest, Hancock & Co., Custom Street East, Auckland.

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Dearsly, H., P.O. Box 466, Auckland.
De Clive Lowe, Dr., Symonds Street, Auckland.
Dempsey, J., Newmarket.
Dennin, John, care Hon. E. Mitchellson, Waimauku.
Dettmann, Professor H. S., University College, Auckland.
Devereux, H. B., Waihi.
Devore, A. E. T., Wyndham Street, Auckland.
Dickenson, J. C., Public School, Ponsonby.
Dove, J. C., Australian Hardwood Co., Mechanics' Bay, Auckland.
Downard, F. N. R., Public School, Kuaotunu.
Duthie, D. W., National Bank of N.Z., Queen Street, Auckland.
Dunnet, G., Rocklands, Epsom.

Earl, F., Swanson Street, Auckland.
Edson, J., Queen Street, Auckland.
Egerton, Prof. C. W., University College, Auckland.
Ellingham, W. R., Customs Street East, Auckland.
Elliott, G., Bank of N.Z. Buildings, Queen Street, Auckland.
Ellis, J. W., Hamilton, Waikato.
Ellison, T., East Tamaki.
Endean, J., Jermyn Street, Auckland.
Entrican, A. J., Custom Street East, Auckland.
Ewington, F. G., Durham Street, Auckland.

Fairclough, Dr. W. A., Watson's Buildings, Queen Street, Auckland.
Farrell, R., Anglesea Street, Auckland.
Favell, Rev. H. A., Picton Street, Auckland.
Fenwick, Dr. G., Premier Buildings, Queen Street, Auckland.
Finch, F., Harbour Board Offices, Auckland.
Fleming, J., 142, Grafton Road, Auckland.
Florance, R. S., R.M. Court, Gisborne.

*Fowlds, Hon. G., Queen Street, Auckland.
Frater, J. W., care R. Frater, Stock Exchange, Auckland.
Garrard, C. W., M.A., Education Office, Auckland.
George, G., Technical College, Wellesley Street, Auckland.
George, Hon. S. T., St. Stephen's Avenue, Parnell.
Gerard, E., Custom Street East, Auckland.
Gilbert, T., Manukau Road, Parnell.
Gilfillan, H., St. Stephen's Ave., Parnell.
Girdler, Dr., Khyber Pass Road, Auckland.
Gleeson, J. C., Selwyn Lodge, Parnell.
Gleeson, P., Selwyn Lodge, Parnell.
Goldie, D., Breakwater Road, Auckland.
Gordon, H. A., Ranfurly Road, Epsom.
Gorrie, H. T., A. Buckland & Sons, Albert Street, Auckland.
Gould, A. M., care Parr & Blomfield, Shortland Street, Auckland.
Graham, G., Tudor Street, Devonport.
Graham, J. B., Tudor Street, Devonport.
Grant, Miss J., M.A., Devonport.
*Gray, Andrew, Smeeton's Buildings, Queen Street, Auckland.
Gray, M. D., 93, Queen Street, Auckland.
Gray, S., Mt. Eden Borough Council Offices, Mt. Eden.
Gribbin, G., Nicholson and Gribbin, Queen Street, Auckland.
Griffin, L. T., Museum, Auckland.
Gunson, J. H., Custom Street W., Auckland.
Gunson, R. W., Custom Street W., Auckland.

Haddow, J. G., Wyndham Street, Auckland.
Haines, H., F.R.C.S., Shortland Street, Auckland.

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- Hall, Edwin, Carlton Street, Hillsborough, Onehunga.
- Hall, J. W., Victoria Avenue, Remuera.
- Hall, R., Remuera.
- Hamer, W. H., C.E., Harbour Board Offices, Auckland.
- Hanna, A., Queen Street, Auckland.
- Hansard, G. A., Shortland Street, Auckland.
- Hansen, P. M., Queen Street, Auckland.
- Hardie, J. C., Hardie Bros., Queen Street, Auckland.
- Harding, A. B., Te Papapa, Onehunga.
- Harding, A. E., Mangawhare, Northern Wairoa.
- Hardy, C. J., Hobson Park, Parnell.
- Harrop, W. F., Shortland Street, Auckland.
- Hawkins, Rev. Archdeacon H. A., Remuera.
- Hay, Douglas, Stock Exchange, Queen Street, Auckland.
- Hay, D. A., Montpelier Nursery, Remuera.
- Hazard, W. H., Queen Street, Auckland.
- Heath, H. W., Alfred Street, Auckland.
- Heather, H. D., Custom Street West, Auckland.
- Herbert, T., Shortland Street, Auckland.
- Hesketh, H. R., Wyndham Street, Auckland.
- Hesketh, S., Wyndham Street, Auckland.
- Hodgson, J., Victoria Street East, Auckland.
- Holderness, D., Harbour Board Offices, Auckland.
- Holgate, Col., care Northern Coal Co., Custom Street, Auckland.
- Horton, E., "Herald" Office, Auckland.
- Horton, H., "Herald" Office, Auckland.
- Houghton, C. V., Quay Street, Auckland.
- Hull, F., Stock Exchange, Queen Street, Auckland.
- Hutchinson, G. R., care Hutchinson Bros., Custom Street West, Auckland.
- Hutchinson, W. E., Hobson Street, Auckland.
- Inglis, Dr. R. T., "Maroondah," Ponsonby Road, Auckland.
- Jackson, J. H., Custom Street E., Auckland.
- Jagger, A. T., care Jagger and Harvey, Queen Street, Auckland.
- Jagger, Frank, Arney Road, Remuera.
- James, J. W., Mt. Albert.
- Johnson, H., Dunbar, Manganuanga, Te Aroha.
- Johnstone, Hallyburton, Howick.
- Jones, H. W., Public School, Papakura.
- Kenderdine, J., Sale Street, Auckland.
- Kent, B., Gladstone Road, Parnell.
- Kent, G. S., St. Stephen's Avenue, Parnell.
- Keyes, A., Birkenhead.
- Kronfeld, G., Custom Street, Auckland.
- Lamb, R. S., 55, Pitt Street, Sydney, New South Wales.
- Lamb, S. E., B.Sc., University College, Auckland.
- Lang, Hon. F. W., M.P., Onehunga.
- Langguth, E., Custom Street W., Auckland.
- Larkin, H., Harbour Board Offices, Auckland.
- Lennox, J. M., Remuera.
- *Lennox, N. G., care Auckland Institute, Auckland.
- Lewis, Dr. T. H., Remuera.
- Leyland, W. B., care Leyland & O'Brien, Custom Street West, Auckland.
- Leys, Cecil, "Star" Office, Shortland Street, Auckland.
- Leys, T. W., "Star" Office, Shortland Street, Auckland.
- Lindsay, Dr. P. A., O'Rourke Street, Auckland.

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Lloyd, Trevor, "Herald" Office, Auckland.

Lunn, A. G., care Collins Bros., Wyndham Street, Auckland.

Macfarlane, T., C.E.

Maclean, Murdoch, Contractor, Auckland.

Macmillan, C. C., care Gibson Macmillan, Waingaro.

Mahoney, E., Shortland Street, Auckland.

Mahoney, T., Swanson Street, Auckland.

Mair, Capt. G., Waiotapu, Rotorua.

Mair, S. A. R., Hunterville, Wellington.

Major, C. T., King's College, Remuera.

Makgill, Dr. R. H., Public Health Office, Auckland.

Marchesini, Dr. G., Princes Street, Auckland.

Marriner, H. A., N.Z. Insurance Co., Queen Street, Auckland.

Martin, J., Victoria Arcade, Queen Street, Auckland.

Mennie, J. M., Albert Street, Auckland.

Metcalfe, H. H., C.E., Palmerston Buildings, Queen Street, Auckland.

McDowell, Dr. W. C., Remuera.

McGregor, W. G., Shortland Street, Auckland.

McKenzie, Capt. G., Devonport.

McMurray, Rev. G., St. Mary's Vicarage, Parnell.

McVeagh, R., care Russell and Campbell, Wyndham Street, Auckland.

Miller, E. V., Chelsea, Auckland.

Milnes, H. A. E., Training College, Wellesley Street, Auckland.

Milroy, S., Kauri Timber Co., Custom Street W., Auckland.

Milsom, Dr. E. H. B., 18, Waterloo Quadrant, Auckland.

Mitchelson, Hon. E., Remuera.

Montague, J. F., care Watts and Co., Lower Albert Street, Auckland.

Moody, B. C., Clark Street, Mt. Eden.

Moore, J. E., Esplanade Road, Mt. Eden.

Morgan, H. H., University College, Auckland.

Morrison, A. R., Palmerston Buildings, Queen Street, Auckland.

Morrison, W. B. A., Hobson Buildings, Shortland Street, Auckland.

Morton, E., Custom Street East, Auckland.

Morton, H. B., One-tree Hill, Epsom.

Moss, E. G. B., Swanson Street, Auckland.

Mowlem, A. M., National Insurance Buildings, Queen Street, Auckland.

Mulgan, E. K., Education Offices, Auckland.

Myers, A. M., M.P., Campbell Ehrenfried Co., Queen Street, Auckland.

Napier, W. J., Security Buildings, Queen Street, Auckland.

Nathan, D. L., care L. D. Nathan & Co., Shortland Street, Auckland.

*Nathan, N. A., care L. D. Nathan & Co., Shortland Street, Auckland.

Nathan, S. J., Princes Street, Auckland.

Neve, F., Technical College, Wellesley Street, Auckland.

Newton, G. M., 102, Victoria Arcade, Queen Street, Auckland.

Niccol, G., Arney Road, Remuera.

Nichol, J. W., 205, Victoria Arcade, Queen Street, Auckland.

Nicholson, O., Imperial Buildings, Queen Street, Auckland.

Oliphant, P., 24, Symonds Street, Auckland.

*Oliver, W. R. B., H.M. Customs, Auckland.

Osmond, G. B., Royal Insurance Buildings, Queen Street, Auckland.

Pabst, Dr., Hobson Buildings, Shortland Street, Auckland.

Parker, W. J., Arney Road, Remuera.

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- PAIR, C. J., care PAIR & Blomfield, Shortland Street, Auckland.
- Partridge, H. E., Queen Street, Auckland.
- Patterson, G. W. S., Shortland Street, Auckland.
- Peacock, T., Queen Street, Auckland.
- Peak, A., care Walker and Peak, Wyndham Street, Auckland.
- Petrie, D., Rosmead, Epsom.
- Philson, W. W., Colonial Sugar Co., Quay Street, Auckland.
- Player, Dr. C. E., Birkenhead, Auckland.
- Pond, J. A., F.C.S., Queen Street, Auckland.
- Porter, A., care E. Porter & Co., Queen Street, Auckland.
- Porter, Dr. A. H., Dominion Road, Mt. Eden.
- Pountney, W. H., Commerce St., Auckland.
- Powell, F. E., C.E., Ferry Buildings, Queen Street, Auckland.
- Price, E. A., Buchanan & Co., Albert Street, Auckland.
- Purchas, Dr. A. C., Carlton Gore Road, Auckland.
- Pyeroff, A. T., Railway Offices, Auckland.
- Ralph, W. J., Princes Street, Auckland.
- Rangihiroa, Dr., M.P., Auckland.
- Rawnsley, S., Quay Street, Auckland.
- Reid, J., 45, Fort Street, Auckland.
- Renshaw, F., Sharland & Co., Lorne Street, Auckland.
- Rhodes, C., Waihi Gold Mining Co., Shortland Street, Auckland.
- Robb, J., Victoria Arcade, Queen Street, Auckland.
- Roberton, A. B., Custom Street West, Auckland.
- Roberton, Dr. E., Market Road, Remuera.
- Robertson, J., Remuera Road, Remuera.
- Roche, H., Horahora, near Cambridge, Waikato.
- Rolfe, W., care Sharland & Co., Lorne Street, Auckland.
- Rollett, F. C., "Herald" Office, Queen Street, Auckland.
- Rossiter, Dr. E. B., Mt. Albert.
- Savage, Dr. T. C., Princes Street, Auckland.
- Scott, Rev. D., The Manse, Onehunga.
- Seegner, C., Bank of N.Z. Buildings, Queen Street, Auckland.
- Segar, Prof. H. W., M.A., Manukau Road, Parnell.
- Shakespeare, Mrs. R. H., Whangaparaoa.
- Shaw, F., Vermont Street, Ponsonby.
- Shaw, H., Vermont Street, Ponsonby.
- Shepherd, H. M., Birkenhead.
- Simmonds, Rev. J. H., Wesley Training College, Epsom.
- Simson, T., Mt. St. John Avenue, Epsom.
- Sinclair, A., Symonds Street, Auckland.
- Sinclair, G., care Pilkington & Co., Queen Street, Auckland.
- Skelton, A. E., care Wynyard & Skelton, Swanson Street, Auckland.
- Skelton, Hall, Watson's Buildings, Queen Street, Auckland.
- Smallfield, Rev. P. S.
- Smeeton, H. M., Binswood, View Road, Mt. Eden.
- Smith, Capt. James, Franklin Road, Ponsonby.
- Smith, H. G. Seth, Victoria Ave., Remuera.
- *Smith, S. Percy, F.R.G.S., New Plymouth.
- Somerville, Dr. J., Alfred Street, Auckland.
- Somerville, J. M., Chelsea, Auckland.
- Spencer, Percy, Imperial Buildings, Queen Street, Auckland.
- Spencer, W. C. C., Grafton Road, Auckland.
- Spragg, Wesley, Mount Albert.
- Stewart, James, care Stewart Bros., Helensville.
- Stewart, J. W., Wyndham Street, Auckland.
- Stewart, John A., Kainga-tonu, Ranfurly Road, Epsom.

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Stewart, R. Leslie, care Brown & Stewart, Swanson Street, Auckland.

Stewart, W. F., Auckland Gas Co., Wyndham Street, Auckland.

Streeter, S. C., Eden Street, Mt. Eden.

Swan, H. C., Henderson.

Swanson, W., Church Street, Devonport.

Taylor, W., Kempthorne, Prosser & Co., Albert Street, Auckland.

Thomas, Prof. A. P. W., Mountain Road, Epsom.

Thornes, J., Queen Street, Auckland.

Tibbs, J. W., M.A., Grammar School, Auckland.

*Tinne, H., Union Club, Trafalgar Square, London.

Tole, Hon. J. A., Queen Street, Auckland.

Trounson, J., Northcote.

Tunks, C. J., care Jackson & Russell, Shortland Street, Auckland.

Upton, J. H., Queen Street, Auckland.

Urquhart, A. T., Karaka, Drury.

Vaile, E. E., Broadlands, Waio-tapu.

Vaile, H. E., Queen Street, Auckland.

Wade, H. L., Victoria Arcade, Queen Street, Auckland.

Walker, Prof. Maxwell, University College, Auckland.

Walker, S., Melrose, Devonport.

Walker, W. R., Stock Exchange, Queen Street, Auckland.

Walklate, J. J., Electric Tramway Co., Auckland.

Wallace, T. F., Waihi G.M. Co., Shortland Street, Auckland.

Walsh, Rev. Archdeacon P., Cambridge, Waikato.

Walters, J. R., Onslow Road, Kingsland, Auckland.

Ward, Percy, Mountain Road, Remuera.

Ware, W., Portland Rd., Remuera. Waterworth, A., Lambton Quay, Wellington.

Watson, Rev. C. A. B., St. Paul's Vicarage, Auckland.

Webbe, W. H., Berlin Piano Co., Queen Street, Auckland.

Webster, J. D., Lower Queen St., Auckland.

Wells, T. U., Westbourne Road, Remuera.

White, R. W., Wellington Street, Auckland.

Whitley, W. S., Albert Street, Auckland.

Williams, Right Rev. W. L., D.D., Napier.

Wilson, Albert, St. Stephen's School, Parnell.

Wilson, A. P., Victoria Arcade, Queen Street, Auckland.

Wilson, F. W., "Herald" Buildings, Queen Street, Auckland.

Wilson, H. Munro, C.E., Palmerston Buildings, Queen Street, Auckland.

Wilson, John, Portland Cement Co., Shortland Street, Auckland.

Wilson, J. M., Beach Road, Remuera.

Wilson, Liston, Mountain Road, Remuera.

Wilson, Martin, Rozelle, Lower Remuera.

Wilson, R. M., Russell Road, Remuera.

Wilson, W. R., "Herald" Office, Queen Street, Auckland.

Winkelmann, H., Victoria Arcade, Queen Street, Auckland.

Winstone, F. B., Custom Street, Auckland.

Winstone, G., Custom Street, Auckland.

Wiseman, A., Hobson Buildings, Shortland Street, Auckland.

Wiseman, J. W., Albert Street, Auckland.

*Withy, E., care Public Trustee, Auckland.

Woodward, W. E., Union Bank of Australia, Auckland.

Woolcott, A. C., South British Insurance Co., Queen Street, Auckland.

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Wright, R., care A. B. Wright &
Sons, Commerce Street, Auckland.

Wyllie, A., C.E., Electrical Power
Office, Breakwater Road, Auckland.

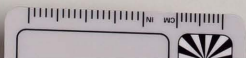
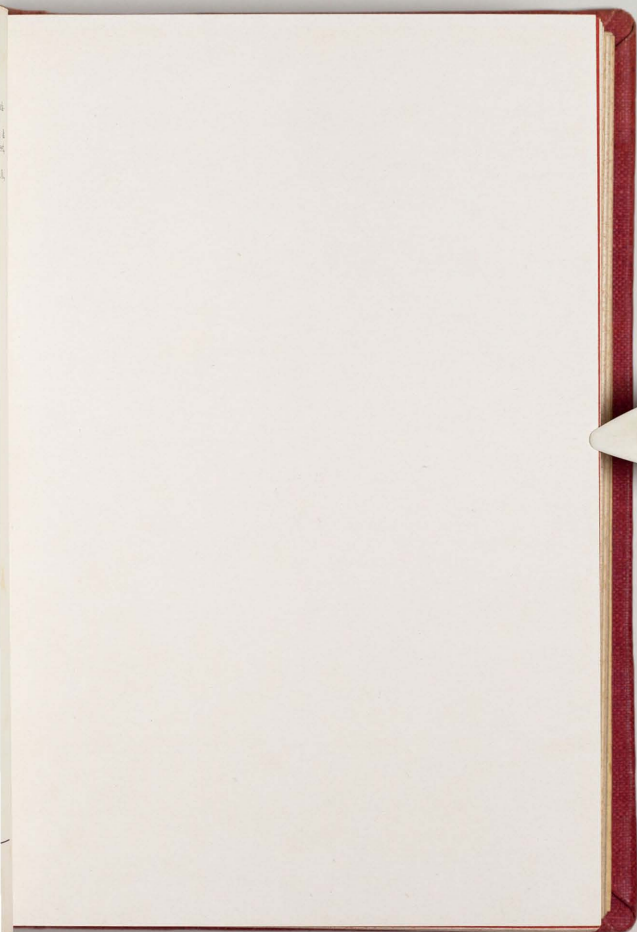
Yates, E., Albert Street, Auckland.

Young, J. L., care Henderson &
Macfarlane, Custom Street,
Auckland.

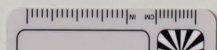
Young, Capt. C. A., G.P.O.,
Auckland.



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